Meeting Minutes Transmittal/Approval
Unit Managers' Meeting
200 Area Groundwater and Source Operable Units
1200 Jadwin Avenue, Richland, Washington
August 25, 2004

APPROVAL: Arlene Tortoso Date: 2/17/05
Arlene Tortoso, Groundwater Unit Manager, DOE/RL

APPROVAL: Larry Romine Date: 2-17-05
Larry Romine, Federal Project Director, 200 Area D4 & Waste Site Remediation, DOE/RL

APPROVAL: Craig Cameron Date: 2/17/05
Craig Cameron, 200 Area Unit Manager, EPA

APPROVAL: John B. Price Date: 2-17-05
John Price, 200 Area Unit Manager, Ecology

Meeting minutes are attached. Minutes are comprised of the following:

Attachment 1	--	Agenda
Attachment 2	--	Attendance Record
Attachment 3	--	200 Area UMM Minutes – August 25, 2004
Attachment 4	--	200 Area Current Action Log
Attachment 5	--	Float Table
Attachment 6	--	200-UP-1, 200-ZP-1 and 200-PW-1 Status Report
Attachment 7	--	Comparison of Maximum Carbon Tetrachloride Rebound Concentrations Monitored at 200-PW-1 Soil Vapor Extraction Sites FY 1998 – FY 2004
Attachment 8	--	Phased Central Plateau Ecological Risk Assessment

Prepared by: _____ Date 2-18-05
Linda DeLannoy, Project Systems & Support (H8-49)

Concurrence by: _____ Date 2/18/05
Mary Todd-Robertson, FH Groundwater Protection Program (E6-35)

DISTRIBUTION
UNIT MANAGERS' MEETING,
200 AREA GROUNDWATER SOURCE OPERABLE UNITS

EPA

Craig Cameron	B5-01

Ecology

John Price	H0-57
Administrative Record (2)	A3-01

UNIT MANAGERS' MEETING AGENDA

825 Jadwin/Rm 142
August 25, 2004

9 a.m. – 10 a.m.

Issues Resolution Meeting

- Review of Issues Table from July UMM
- Definition of Substantive and Continuous Progress
- Discussion on UMM Format & Schedule

10 a.m. – Noon.

General (15 minutes)

- Outstanding Action Items
- Open for Regulatory Topics or Action Items
- Start Cards

Central Plateau Closure (5 min)

- Decision/issues framework discussion

U Plant Area Regional Closure (10 minutes)

- Schedule Review
- Proposed Plan Workshop
- SAP Workshop
- Comments on RDR/RAWP Annotated Outline

BC Cribs Area Closure (5 minutes)

- Schedule Review
  - Tc Plume Delineation
  - 216-B-26 Fate & Transport Modeling

200-TW-1, 200-TW-2, & 200-PW-5 (2 minutes)

- Schedule Review
  - Status of RI Report
  - Status of FS and PP

GROUNDWATER OPERABLE UNITS

200-BP-5 & 200-PO-1 OUs (10 minutes)

- Revised sampling lists for near-term collection

200-UP-1 OU (5 minutes)

- Remediation Treatment Status
- RI/FS Work Plan Status – Meeting with Ecology 8/17 to review DQOs Final comments due 9/3
- Status of New Wells, "P," "K," and "R"
- Update on Rebound Study

200-ZP-1 OU (5 minutes)

- Remediation Treatment Status
- RI/FS Work Plan Status – Currently being distributed
- Update on Expanding P+T System to North
- Approval to Use Single Wall Discharge Line (P+T Expansion)

200-PW-1, 200-ZP-2 OU (5 minutes)

- Remediation Treatment Status
- Monthly Monitoring

SOURCE OPERABLE UNITS

200-PW-1, 200-PW-3, & 200-PW-6 OUs (5 minutes)

- Schedule Review
  - Status of Field Work Preparation and Planning
  - Status of Field Work at 216-Z-9

200-CW-1 & 200-CW-3 OUs (2 minutes)

- Schedule Review
  - Status of FS and PP
    - Cost Estimate

200-PW-2 & 200-PW-4 OUs (10 minutes)

- Schedule Review
  - Status of Work Plan
  - Status of RI Report
  - Status of Field Planning for 216-S-7 Borehole

200-CS-1 OU (2 minutes)

- Schedule Review
  - Status of RI Report

200-CW-5, CW-2, CW-4, & SC-1 OUs (10 minutes)

- Schedule Review
  - Status of Work Plan
  - Status of RI Report
  - Status of FS and PP

200 Area Ecological Evaluation (10 minutes)

- Schedule Review
  - Status of Eco DQO
  - Status of Eco Evaluation Report
- Overview of Eco Activities
  - Spring Sampling Progress
  - Status of the FY04 Sampling

200-IS-1 & 200-ST-1 (10 minutes)

- Schedule Review
  - Status of Work Plan

200-LW-1/200-LW-2 (10 minutes)

- Status of Field Work

200-MW-1 (10 minutes)

- Status of Field Work

200-UR-1 (5 minutes)

- Schedule Review
  - Status of DQO and Work Plan

200-SW-1/2 (5 minutes)

- Schedule Review
  - Status of DQO and Work Plan

Groundwater and Source Operable Units Unit Managers' Meeting
Official Attendance Record – 200 Area
August 25, 2004

Please print clearly and use black ink

PRINTED NAME	ORGANIZATION	O.U. ROLE	TELEPHONE
SYLVIA BROWNING	GW Rem.	Minutes	373-4456
Arlene Tortoso	DOE-RL	200-Area GW	373-9631
Roy BAUER	FH	CW-5 UR-1	373-3931
Larry Hulstrom	FH	Pw-2/4	373-3928
David Erb	FH	200-UP/ZP-1 200-IS-1	373-4457
Ronald L. Jackson	FH	200-(UW-1) UPlant WS	373-3599
Janice Williams	FH	D+D	372-3799
Bryan Foley	DOE-RL	200Area waste sits	376-7087
Lanny Dusek	FH	CP D+D	373-2465
John G. Morse	DOE-RL	GW	376-0057
Larry Romine	DOE-RL	200A WS & Facilities	376-4747
ALICIA Hamar	Ecology	200-CS-1 216-U-12	372-7904
Brenda Becker-Khaleel	Ecology	RODS	372-7882
STEVE BERTNESS	DOE-RL	200 AREA WASTE SITES	376-6221
John Price	Ecology	Proj. Mgr.	372-7921
Bruce Ford	Ecology	Div Groundwater	373-3809
Dis Goswami	Ecology	Sitewide Mgmt	372-7902
Zelma Jackson	Ecology	216-U-12 200 UP-1	372-7910
Rick Bond	Ecology	U Area	372-7885
CARL STRODE	FH	200 AREA GROUNDWATER	373 4421

Groundwater and Source Operable Units Unit Managers' Meeting
Official Attendance Record – 200 Area
August 25, 2004

Please print clearly and use black ink

PRINTED NAME	ORGANIZATION	O.U. ROLE	TELEPHONE
Mark Byrnes	FH	200 Area Task Lead	373-3996
Virginia Rohay	FH	200-PW-1 200-SW-2	373-3803
Craig Cameron	EPA	Unit Manager	376-8665
Jennie Stults	Ecology	200-UR-1 200-CW-1 200-PW2/4 200 SW1/2	372-7956
Beth Rochette	Ecology	200-UW-1 CP Eco Risk	372-7922
Jon Perry	FH	Env protection compliance	376-4791
Stuart Luttrell	PNNL	GW Monitoring BP-5 / PO-1	376-6023
John Winterhalder	FH	Env/ECO	372-8144
Eileen Murphy-Fitch	FH	TRA	376-8868
Chris Cearlock	CHG	200-CS-1 / 200-UW-1 / 200-MW-1	372-9638
Dan Termain	FH		308-6513
Mark Benecke	FH	BC Cribs… TU-1/2	376-0002
Julie Robertson	FH D&D	U Area/CD1	376 8162
Mike Hickey	FH	CW1&3; CW5 plus lead	373-3092

MEETING MINUTES
200 AREA UNIT MANAGERS' MEETING -- 200 AREA
August 25, 2004

Agenda: See Attachment #1

Attendees: See Attachment #2

Table of Issues:

IAMIT	UMM	ISSUES MTG	ISSUES	AGREEMENTS	FOLLOW- ON ACTION	LESSONS LEARNED
	X	X	Points of calculation for UP, ZP	Be consistent.	Formally closed 8/24/04 per B. Ford	
	X		ROD Strategy	Evolved in IAMIT small group discussion for CP.	Should be standard process for RCRA/CERCLA. Keep status at IAMIT until decision on how to memorialize is reached.	
	X	X	IS-1 OU – RL/ORP Agreements on scope (pipeline) by October 2004, clear delineation of sites, TSD vs. RPP status	DOE – Don't have clear understanding of RCRA/CERCLA Integration; need guidance.	RL/ORP meeting with Ecology on pipeline proposal by July 2nd (RL- Foley) Per DOE can be closed this month. DOE is working on resolution of Actions identified in Ecology's letter covering integration.	
	X		RCRA/CERCLA Integration		Going to Legal first of October. Carry over to October.	
			SW-2 OU – Collaborative negotiations on TPA milestone, request for commitment within 1 week, outstanding issues (40CFR191; criteria for use of process knowledge)		RL respond to Ecology request (October/ November 2003) for collaborative negotiations. Ecology sent letter saying milestone would be missed. DOE and Ecology need to negotiate scope or elevate to IAMIT. Ecology is concerned that schedule for implementation may not achieve 2008 milestone.	

IAMIT	UMM	ISSUES MTG	ISSUES	AGREEMENTS	FOLLOW- ON ACTION	LESSONS LEARNED
			D&D representation at UMM	Lanny Dusek already invited; Julie Robertson to be invited.		
			Informal transmittal of docs	Closed out 8/25/04		
			2004 Ecological Risk Sampling (DOE, Ecology)	We are not going to be done because budget was shifted to Ecology.	Sampling ahead of schedule; mammal population down so we didn't get what we wanted. Deferral of 2004 ecological sampling is not expected to have impact.	

Issues Resolution Meeting:

- Review of Issues Table from July UMM – Status captured in Table (above).
- Definition of Substantive and Continuous Progress – Delete from issues.
- Discussion on UMM Format & Schedule – Ongoing for issue resolution.

Unit Managers' Meeting:

1. **General**
   - Outstanding Action Items – (Attached) No Discussion.
   - Open Regulatory Topics or Action Items – Ecology raised concern regarding setting target milestones for U Plant. A discussion was held regarding work priorities and funding limitation choices will have to be made on priorities. RL suggested revising the meeting agenda to focus on OUs that may have issues e.g., agenda on exception status. Status on OUs only if something is different. Every six months status on everything. Discussion was held regarding how status would be received for items not covered. No agreement was reached.
   - Start Cards – Ecology concerned with how start cards are to be used. Start Cards are for notices to be given before penetration. UW-1 boreholes didn't have Start Cards.

Faulk and Cameron no longer have Outlook. Send meeting invites to alternate addresses for Faulk.Dennis@epa.gov and Cameron.craig@epa.gov

2. **Central Plateau Closure**
   - Decision/issues framework discussion – No discussion.

3. **U Plant Area Regional Closure**
   - Schedule Review Status of FFS/PP – Updating PP based on comments received from RL and Barb Wise/FH.

- Proposed Plan Workshop – Updated document will be revised as Draft C (Agency Workshop Draft) and will be transmitted to Ecology in preparation for a Tri-Party Workshop currently planned during the week of September 23, 2004. FFS is being updated consistent with the modifications requested as part of the PP review. In concert with FFS updates, a separate technical memo is being produced to re-evaluate the application of a caisson as a technology for the deep contaminants. Memo is scheduled for delivery concurrent with the FFS.
  - Pipeline EE/CA – Waste site pipeline work scope is deferred to FY 2005 due to budget constraints.
  - Drive Casing/Spectral Gamma – Completed decommissioning of the last of the six stuck casings August 19, 2003, which were installed in the initial investigative phase.
- SAP Workshop – No discussion.
- Comments on RDR/RAWP Annotated Outline – No discussion.

4. BC Cribs Area Closure

- Schedule Review – Goal is to submit FFS and PP to regulators by end of September.
  - Tc Plume Delineation – Preliminary data analysis shows the presence of an anomalous high conductivity region in the vadose zone in the vicinity of the 216-B-26 Trench at a depth previously characterized by high Tc-99, nitrate and moisture. Data indicates that this contamination probably has merged with that from adjacent trenches, creating a continuous plane of deep contamination beneath the waste sites. Although further data refinement is underway, it is believed that the third phase of the work where electrodes would be inserted directly into the plume to achieve even higher plume resolution is not warranted because of the resolution obtained by non-intrusive means. Redirection of the remainder of the study to focus on ground-truthing the data is planned. Also additional HRR examination of the trenches near 216-B-26 Trench began.
  - 216-B-26 Fate & Transport Modeling – Draft report has been delayed until the end of the month.

5. 200-TW-1, 200-TW-2, & 200-PW-5

- Schedule Review – Awaiting comments; still working issues.
  - Status of RI Report – Modeling efforts in response to USGS comments continued. Initial response with additional questions from the USGS was received 8/18.
  - Status of FS and PP – On hold while a focused feasibility study is prepared for the BC Cribs and Trenches.

GROUNDWATER OPERABLE UNITS

6. 200-BP-5 & 200-PO-1 OUs

- Revised sampling lists for near-term collection – No discussion.

7. 200 UP-1 OU

- Remediation Treatment Status – Average Pumping Rate (counting all outage time as 0 gpm) for CY04 through August 8 is approximately 48.9 gpm. If the first 3 weeks of January are taken out of the equation the average flow rate is 51.1 gpm. Starting September 1, 2004, Ecology will be reviewing a 200-UP-1 Operating Plan for a rebound study proposed to begin 4th week in January 2005. From June 21 through August 8, the system operated between 50.2 and 51.5 gpm. The system was shutdown for 5.5 hours on July 6, 4.5 hours on July 19, and 8 hours on July 27 for ERDF leachate transfers. System Run Time:
  - For June 21 through August 8 98.5%
  - FY 2004 (Year to date) 90.7%
  - System Inception to date 92.4%
- RI/FS Work Plan Draft B – Held meeting with Ecology August 17, 2004, to answer questions related to COC list. Ecology comments due September 3, 2004. Important Deliverables:
  - July 12, 2005 – DOE-RL submits Draft A RI Report to Regulators
  - April 5, 2007 – Issue Draft A FS Report to Regulators
- Status of New Wells, "P", "K", and "R" – Drilling of new monitoring well "P" has reached groundwater. New well "R" will be reaching groundwater in the next few days. Drilling of new well "K" will follow. Missing data to support the CERCLA RI/FS process will be collected from these wells.
- Update on Rebound Study – No discussion.

8. 200-ZP-1 OU

- Remediation Treatment Status – Average Pumping Rate for FY 2004 through August 8: 131 gpm. From June 21 through August 8, the system operated at between 147 and 204 gpm. Extraction well #4 was put back on line August 2. System was shutdown for approximately 1 hour on June 24 for system calibration. System shutdown for approximately 15 hours between August 2 and 3 due to electrical power outage. Attended a kickoff meeting with DNAPL subcontractor August 24. System Run Time:
  - For June 21 through August 8 98.6%
  - FY 2004 (Year to date) 95.9%
  - System Inception to date 92.6%
- RI/FS Work Plan Status – Rev. 0 is in reproduction.
- Update on Expanding P&T System to North – Design work for pump-and-treat expansion to the north will begin in early FY 2005. To get the additional 3 or 4 new extraction wells online as quickly as possible, plan to convert existing monitoring wells into extraction wells (e.g., 299-W15-765, 299-W15-43, 299-W15-40). Would like to get EPA approval to use single walled piping for discharge lines and install discharge lines above ground and perform daily inspection. Rationale: we have 10 years of experience using

double walled buried piping and have had no serious problems, large dollar savings using single walled piping, and WAC 173-303-640 (4)(f) Tank Systems allows for this.

- Approval to use Single Wall Discharge Line (P + T Expansion) – No discussion.

9. 200-PW-1, 200-ZP-2 OU

- Remediation Treatment Status – (Attached). Average Air Flow Rate for June 21 through August 8: 253 CFM. The system will likely have to be shut down in the near future due to PFP security fence expansion. The passive system remains operational. The period of operation has been extended to October 31, 2004.
- Monthly Monitoring – Monitoring was conducted at non-operational wells and probes during July 2004 (attached). The results are consistent with monitoring data from previous months. The three probes at location CPT-9A were damaged by a vehicle during construction of the new parking lot at PFP. EPA requested to be kept informed on whether the probes can be salvaged.

SOURCE OPERABLE UNITS

10. 200-PW-1, 200-PW-3, & 200-PW-6 OUs:

- Schedule Review
  - Status of Field Work Preparation and Planning – Pre-job planning for the 216-A-8 Crib remedial investigation is continuing in support of drilling in FY 2005.
  - Status of Field Work at 216-Z-9 – The borehole depth for the DNAPL investigation at the 216-Z-9 site was 184 ft bgs on 8/25/04. Both a vapor sample and a split-spoon sample were collected at this depth. The next samples will be collected at 224 ft bgs.

11. 200-CW-1 & 200-CW-3 OUs:

- Schedule Review – Discussion on the Regulatory Agencies expectation of "continuous and substantial progress" once the ROD is issued. EPA and Ecology will discuss the issue and report next month. RL requests that the process goes forward and issue a ROD for CW-1 FS sites. This is not a high priority for EPA. Brian Foley, RL, to write letter to get EPA concurrence. Definition of continuous and substantial work discussed. Regulating agencies may have different expectations than outlined in the Implementation Plan. Ecology requesting to move 216-N-8 Pond site into 200-UR-1 OU. Currently it is in the 200-CW-1 OU. Ecology requested RL explore the possibility of starting DQO development for confirmatory sampling earlier than the current baseline indicates. Ecology has requested that the confirmatory sampling be accomplished as soon as possible in the baseline schedule. Mike Hickey, FH, to provide an early start date for the confirmatory sampling and funding impacts.

12. 200-PW-2 & 200-PW-4 OUs

- Schedule Review
  - Status of Work Plan – The Rev. 1 version is in the process of being formally transmitted to the regulators from RL.

- Status of RI Report – Ecology requested a 60 day extension on July 30, 2004, pushing receipt of comments out to 10/18.
- Status of Field Planning for 216-S-7 Borehole – Pre-job planning activities continued for characterization activities. Issues regarding hazard classification for the borehole drilling activity were resolved August 23, 2004, and pre-drilling field activities are underway.

13. 200-CS-1 OU

- Schedule Review – CS-1 operable unit group has 7 sites. None will qualify as no action sites. Deferral of FY 2004 ecological sampling is not expected to impact the RI report.
  - Status of RI Report – Comment responses were forwarded to Ecology August 6, 2004. Additional comments were received from Ecology on August 12, 2004. Comments from stakeholders will not be received until August 25, 2004, due to delays in submitted RI report to the stakeholders. This will delay the submittal of Rev. 0 document to DOE.

14. 200-CW-5, CW-2, CW-4 &O SC-1 OUs

- Schedule Review
  - Status of Work Plan – FH clearance review was completed and submitted to RL August 24, 2004.
  - Status of RI Report – R. Bauer, FH, to develop and transmit technical paper documenting results of RSRAD analysis of a pond site at the edge of the Core Zone boundary prior to issuance of Draft A version of FS.
  - Status of FS and PP – FS and PP submitted to RL August 5, 2004, with review comments due to FH by August 26, 2004. Due to an oversight, Chapter 6 comments will be submitted by August 31, 2004.

15. 200 Area Ecological Evaluation

- Schedule Review
  - Status of Eco DQO – The SAP and DQO are undergoing technical editing for issuance as Rev. 0 documents. Planning efforts for field implementation of SAP have been halted. FH sent an email to RL on 8/3 informing that the Central Plateau Ecological field characterization planned for this summer would be deferred until FY 2005 due to funding limitations. The DQO and SAP are currently being revised to reflect this change.
  - Status of Eco Evaluation Report – Undergoing final technical editing.
- Overview of Eco Activities
  - Spring Sampling Progress – Strike spring sampling from meeting minutes. Defer to FY 2005; we are currently working to ensure we have adequate funds in FY 2005.
  - Status of the FY 2004 Sampling – See issues.

16. 200-IS-1 & 200-ST-1

- Schedule Review
  - Status of Work Plan – An annotated outline of the proposed revised 200 IS-1/ST-1 WP was sent by email to John Price at Ecology on August 8, 2004. Comments on content and structure were requested. A number of sites assigned to the IS-1/ST-1 OU are organizationally assigned to CH2M HILL. This issue needs to be resolved through the revision to the WP. Regulators have indicated that the ORP sites fall under the 2008 milestone to complete RI/FS Work. Ecology has indicated that the due date for 200-IS-1 WP is reset to October 29, 2004, with selected additional text due into the document by December 31, 2004. Negotiations between ORP and RL are being initiated to resolve ownership of the sites in dispute.

17. 200-LW-1/200-LW-2

- Status of Field Work – Based on spectrall gamma and passive neutron logging data, the borehole location at 216-Z-7 Crib will be placed adjacent to drive casing C4183 located near the end of the crib. As of August 24, 2004, the borehole at the 216-S-20 Crib was at a depth of 45.5 ft. bgs and four of the ten samples have been collected.

18. 200-MW-1

- Status of Field Work – Drilling operations at the 216-A-4 Crib continue to be suspended pending additional data. Preliminary analytical results from a soil sample collected from the bottom of the 22 ft drive barrel showed concentrations of Cs-137 at 5,600,000 pCi/g, Sr-90 at 958,000 pCi/g, and Pu^{239} at 42,000 pCi/g. The installation of the driving casing began on 8/24 and should be completed by August 25, 2004. Spectrall gamma and passive neutron logging of the drive casing will be conducted by Stoller early next week.

19. 200-UR-1

- Schedule Review –
  - Status of DQO and Work Plan – Ecology transmitted their review comments on the WP on August 16, 2004. Ecology's review included a comment that West Lake is not a proper fit within the 200-CW-1 OU, and that it belongs in the 200-UR-1 OU. This was a significant comment that affects the scope of the planned RI/FS activities over the next several years.

20. 200-SW-1/2

- Schedule Review –
  - Status of DQO and Work Plan - Efforts continued on DQO and work plan. DOE-RL received a letter from Ecology requesting a comprehensive schedule for the 200-SW-2 OU. A meeting with Ecology and DOE-RL will be scheduled for next week to discuss 200-SW-2 OU issues.

Attachment 4

200 Area Unit Managers' Meeting
OPEN ACTION ITEMS & TRACKING

Action #	Action/Subject	Assigned To	Owed To	Assigned Date	Original Due Date	Adjusted Due Date	Date Complete	Status
34	Provide a clear definition of "Central Plateau"	FH	EPA&Ecology	10/16/03				In progress

200 Area Unit Managers' Meeting
200 Area Remedial Action Float Table
August 2004

Task	Scheduled Date	Float	Comments
200-CS-1			
Deliver Draft A FS/PP for Regulatory Agency Review	11/30/2005	--	On schedule
200-CW-1			
Deliver Draft B FS for Regulatory Agency Review	7/3/2003 (original date based on receipt of regulatory agency comments 45 calendar days after submittal (which would be 5/15/2003) with 45 days to revise and reissue)	-405-d	Regulatory agency comments originally due on 5/15/2003; policy level comments received on that date; Ecology indicated additional comments would be coming; additional informal comments were received on 6/25/2004
	11/30/2004 (new target date based on collecting spring samples and incorporating data into the revision)	--	Schedule revised due to delays at analytical laboratory
200-LW-1			
Deliver Draft A RI Report for Regulatory Agency Review	10/31/2005	--	On schedule
200-PW-2			
Ecology approve Rev 1 RI/FS work plan	2/14/2003	-550-d	After BCR approval, field work is scheduled for 8/04 and completion of work is forecast to not generate a variance for the FS. Comments are resolved. The document is in the clearance cycle.
Deliver Draft A RI Report for Regulatory Agency Review	6/30/2004	--	Delivered 6/24/04
Deliver Draft	12/31/2005	--	On schedule

200 Area Unit Managers' Meeting
200 Area Remedial Action Float Table
August 2004

Task	Scheduled Date	Float	Comments
A FS/PP for Regulatory Agency Review			
200-SW-1/200-SW-2			
Brief Ecology on DQO Approach	7/8/2004	--	Initial briefing conducted on 7/8/04. Follow-up meeting to be scheduled in August
Deliver draft A RI/FS work plan for regulatory Agency review	12/31/2004	--	On schedule
Deliver Waste Control Plan for regulatory Agency review	4/15/2005	--	On schedule
Start field sampling	7/27/2005	--	On schedule
Deliver Draft A RI Report for Regulatory Agency Review	9/19/2007	--	On schedule
200-TW-1 (includes 200-TW-2)			
EPA/Ecology approve RI Report	7/10/2003	-277-d	Modeling results delivered on 05/21/04 to regulatory agency; waiting on response from USGS on 7/16/04
Deliver Draft A FS/PP for Regulatory Agency review	3/31/2004	--	Comments received and document modification underway
Revise FF/PP for Region 10 review	5/18/2004	-90-d	Request from regulatory agency to separate BC Cribs and Trenches to a standalone FFS/PP and withdrawal of the TW1/2 FS/PP. Issue is being worked between RL and regulatory agency.
BC Crib Focused Feasibility Study	9/30/2004	--	On schedule
200-UR-1			
Deliver draft A RI/FS	6/30/2004	--	Delivered 6/30/04

200 Area Unit Managers' Meeting
200 Area Remedial Action Float Table
August 2004

Task	Scheduled Date	Float	Comments
work plan for regulatory Agency review			
Deliver Waste Control Plan for regulatory Agency review	3/1/2006	--	On schedule
Start field sampling	4/26/2006	--	On schedule
Deliver Draft A RI Report for Regulatory Agency Review	5/14/2007	--	On schedule
200-UW-1			
Obtain Regulatory Agency/RL concurrence on SAP	7/29/2004	-22-d	Workshop to address additional comments scheduled 8/12/04
RL Transmit Draft C to Regulatory Agency	9/15/2004	--	Schedule modified to accommodate Proposed Plan workshop scheduled for 09/03/04
Initiate confirmatory sampling	11/1/2004	--	On schedule
200-IS-1/200-ST-1			
Deliver Rev. 1 RI/FS work plan	12/31/2004	--	New date being proposed to Regulatory agency. Document would address a review of technologies, a review of streamlining techniques, resolution of waste site ownership, and a decision logic for addressing pipelines.
Deliver Waste Control Plan for regulatory agency review	1/24/2005	--	On schedule
200-PW-1/200-PW-3/200-PW-6--			
Deliver Draft A RI Report for Regulatory	6/30/2006	--	On schedule

200 Area Unit Managers' Meeting
200 Area Remedial Action Float Table
August 2004

Task	Scheduled Date	Float	Comments
agency Review			
200-MW-1			
Deliver Draft A RI Report for Regulatory agency Review	12/31/2005	--	On schedule
200-CW-5/200-CW-2/200-CW-4/200-SC-1			
Deliver Rev. 1 RI/FS work plan	M-013-22 met on schedule; Rev. 0 work plan approved 9/28/2002. Consolidation TPA change package approved 6/5/2002. Rev. 1 originally scheduled to be delivered 5/6/2003	-377-d	Delivered to RL 4/1/04; on hold at RL pending some comments on the QAPjP.
Deliver Rev. 0 RI Report	9/1/2003 (original date based on receipt of regulatory agency comments on 7/15/2003 with 45 days for revision)	-319-d	Inconsistencies between the work plan and the RI report were addressed. RESRAD runs have been completed and comments were incorporated. New delivery date 07/21/04
Deliver Draft A FS/PP for Regulatory agency Review	10/31/2004	--	On schedule
200 Area Common - Ecological			
Central Plateau Ecological Evaluation	07/16/04	-48-d	New schedule date 09/02/04
Central Plateau Ecological DQO	04/22/04	-147-d	New schedule date 09/16/04
Central Plateau Ecological SAP	06/28/04	-66-d	New schedule date 09/02/04

200 Area UMM – August 2004

200-UP-1:

- Average Pumping Rate (counting all outage time as 0 gpm) for CY04 through August 8 is approximately 48.9 gpm. If we take the first 3 weeks of January out of the equation the average flow rate is 51.1 gpm
- Starting September 1, Ecology will be reviewing a 200-UP-1 Operating Plan for a rebound study proposed to begin 4th week in January 2005.
- From June 21 through August 8, the system operated between 50.2 and 51.5 gpm.
- The system was shutdown for 5.5 hours on July 6, 4.5 hours on July 19, and 8 hours on July 27 for ERDF leachate transfers.
- System Run Time
  - For June 21 through August 8 98.5%
  - FY2004 (Year to date) 90.7%
  - System Inception to date 92.4%

- RI/FS Work Plan Draft B – Held meeting with Ecology August 17 to answer questions related to COC list. Ecology comments due September 3
- Important ~~Milestones~~ Deliverables: JGP 2-17-05 ACT 2/17/05
  - July 12, 2005 – ~~G2U40195,~~ DOE-RL submits Draft A RI Report to Regulators
  - April 5, 2007 – ~~G2U54160~~, Issue Draft A FS Report to Regulators
- Drilling of new monitoring well "P" has reached groundwater. New well "R" will be reaching groundwater in the next few days. Drilling of new well "K" will follow. Missing data to support the CERCLA RI/FS process will be collected from these wells.

200-ZP-1:

- Average Pumping Rate for FY04 through August 8: 131 gpm
- From June 21 through August 8, the system operated at between 147 and 204 gpm. Extraction well #4 was put back on line August 2.
- System was shutdown for approximately 1hour on June 24 for system calibration. System shutdown for approximately 15 hours between August 2 and 3 due to electrical power outage.

- System Run Time
  - For June 21 through August 8 98.6%
  - FY2004 (Year to date) 95.9%
  - System Inception to date 92.6%

- RI/FS Work Plan Status – Rev. 0 is in reproduction.
- Attended a kickoff meeting with DNAPL subcontractor August 24.

- Design work for pump-and-treat expansion to the north will begin in early FY2005.
    - To get the additional 3 or 4 new extraction wells online as quickly as possible:
        - Plan to convert existing monitoring wells into extraction wells (e.g., 299-W15-765, 299-W15-43, 299-W15-40)
        - Would like to get EPA approval to:
            - Use single walled piping for discharge lines
            - Install discharge lines above ground and perform daily inspection
        - Rationale:
            - We have 10 year of experience using double walled buried piping and have had no serious problems
            - Large dollar savings using single walled piping
            - WAC 173-303-640 (4)(f) Tank Systems allows for this

200-PW-1 (200-ZP-2):

- Average Air Flow Rate for June 21 through August 8: 253 CFM
- System will likely have to be shut down in near future due to PFP security fence expansion
- The passive system remains operational
- Period of operation has been extended to October 31, 2004

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WAC 173-303-640 Tank systems. (1) Applicability.

(a) The regulations in WAC 173-303-640 apply to owners and operators of facilities that use tank systems to treat or store dangerous waste, except as (b), (c), and (d) of this subsection provides otherwise.

(b) Tank systems that are used to store or treat dangerous waste which contain no free liquids and are situated inside a building with an impermeable floor are exempted from the requirements in subsection (4) of this section. To demonstrate the absence or presence of free liquids in the stored/treated waste, the test method described in WAC 173-303-110 (3)(a) must be used.

(c) Tank systems, including sumps, as defined in WAC 173-303-040, that serve as part of a secondary containment system to collect or contain releases of dangerous wastes are exempted from the requirements in subsection (4)(a) of this section.

(d) Tanks, sumps, and other such collection devices or systems used in conjunction with drip pads, as defined in WAC 173-303-040 and regulated under WAC 173-303-675, must meet the requirements of this section.

(2) Assessment of existing tank system's integrity.

(a) For each existing tank system, the owner or operator must determine that the tank system is not leaking or is unfit for use. Except as provided in (b) of this subsection, the owner or operator must obtain and keep on file at the facility a written assessment reviewed and certified by an independent, qualified registered professional engineer, in accordance with WAC 173-303-810 (13)(a), that attests to the tank system's integrity by January 12, 1988, for underground tanks that do not meet the requirements of subsection (4) of this section and that cannot be entered for inspection, or by January 12, 1990, for all other tank systems.

(b) Tank systems that store or treat materials that become dangerous wastes subsequent to January 12, 1989, must conduct this assessment within twelve months after the date that the waste becomes a dangerous waste.

(c) This assessment must determine that the tank system is adequately designed and has sufficient structural strength and compatibility with the waste(s) to be stored or treated, to ensure that it will not collapse, rupture, or fail. At a minimum, this assessment must consider the following:

(i) Design standard(s), if available, according to which the tank system was constructed;

(ii) Dangerous characteristics of the waste(s) that have been and will be handled;

(iii) Existing corrosion protection measures;

(iv) Documented age of the tank system, if available (otherwise, an estimate of the age); and

(v) Results of a leak test, internal inspection, or other tank system integrity examination such that:

ault systems must be:

(A) Designed or operated to contain one hundred percent of the capacity of the largest tank within its boundary;

(B) Designed or operated to prevent run-on or infiltration of precipitation into the secondary containment system unless the collection system has sufficient excess capacity to contain run-on or infiltration. Such additional capacity must be sufficient to contain precipitation from a twenty-five-year, twenty-four-hour rainfall event;

(C) Constructed with chemical-resistant water stops in place at all joints (if any);

(D) Provided with an impermeable interior coating or lining that is compatible with the stored waste and that will prevent migration of waste into the concrete;

(E) Provided with a means to protect against the formation of and ignition of vapors within the vault, if the waste being stored or treated:

(I) Meets the definition of ignitable waste under WAC 173-303-090(5); or

(II) Meets the definition of reactive waste under WAC 173-303-090(7), and may form an ignitable or explosive vapor.

(F) Provided with an exterior moisture barrier or be otherwise designed or operated to prevent migration of moisture into the vault if the vault is subject to hydraulic pressure.

(iii) Double-walled tanks must be:

(A) Designed as an integral structure (i.e., an inner tank completely enveloped within an outer shell) so that any release from the inner tank is contained by the outer shell;

(B) Protected, if constructed of metal, from both corrosion of the primary tank interior and of the external surface of the outer shell; and

(C) Provided with a built-in continuous leak detection system capable of detecting a release within twenty-four hours, or at the earliest practicable time, if the owner or operator can demonstrate to the department, and the department concludes, that the existing detection technology or site conditions would not allow detection of a release within twenty-four hours.

Note: The provisions outlined in the Steel Tank Institute's (STI) "Standard for Dual Wall Underground Steel Storage Tanks" may be used as guidelines for aspects of the design of underground steel double-walled tanks.

(f) Ancillary equipment must be provided with secondary containment (e.g., trench, jacketing, double-walled piping) that meets the requirements of (b) and (c) of this subsection except for:

(i) Aboveground piping (exclusive of flanges, joints, valves, and other connections) that are visually inspected for leaks on a daily basis;

(ii) Welded flanges, welded joints, and welded connections, that are visually inspected for leaks on a daily basis;

(iii) Sealless or magnetic coupling pumps and sealless valves, that are visually inspected for leaks on a daily basis; and

(iv) Pressurized aboveground piping systems with automatic shutoff devices (e.g., excess flow check valves, flow metering shutdown devices, loss of pressure actuated shutoff devices) that are visually inspected for leaks on a daily basis.

(g) The owner or operator may obtain a variance from the requirements of this subsection if the department finds, as a result of a demonstration by the owner or operator that alternative design and operating practices, together with location characteristics, will prevent the migration of any dangerous waste or dangerous

constituents into the ground water, or surface water at least as effectively as secondary containment during the active life of the tank system or that in the event of a release that does migrate to ground water or surface water, no substantial present or potential hazard will be posed to human health or the environment. New underground tank systems may not, per a demonstration in accordance with (g)(ii) of this subsection, be exempted from the secondary containment requirements of this section.

(i) In deciding whether to grant a variance based on a demonstration of equivalent protection of ground water and surface water, the department will consider:

(A) The nature and quantity of the wastes;

(B) The proposed alternate design and operation;

(C) The hydrogeologic setting of the facility, including the thickness of soils present between the tank system and ground water; and

(D) All other factors that would influence the quality and mobility of the dangerous constituents and the potential for them to migrate to ground water or surface water.

(ii) In deciding whether to grant a variance based on a demonstration of no substantial present or potential hazard, the department will consider:

(A) The potential adverse effects on ground water, surface water, and land quality taking into account:

(I) The physical and chemical characteristics of the waste in the tank system, including its potential for migration;

(II) The hydrogeological characteristics of the facility and surrounding land;

(III) The potential for health risks caused by human exposure to waste constituents;

(IV) The potential for damage to wildlife, crops, vegetation, and physical structures caused by exposure to waste constituents; and

(V) The persistence and permanence of the potential adverse effects.

(B) The potential adverse effects of a release on ground water quality, taking into account:

(I) The quantity and quality of ground water and the direction of ground water flow;

(II) The proximity and withdrawal rates of ground water users;

(III) The current and future uses of ground water in the area; and

(IV) The existing quality of ground water, including other sources of contamination and their cumulative impact on the ground water quality.

(C) The potential adverse effects of a release on surface water quality, taking into account:

(I) The quantity and quality of ground water and the direction of ground water flow;

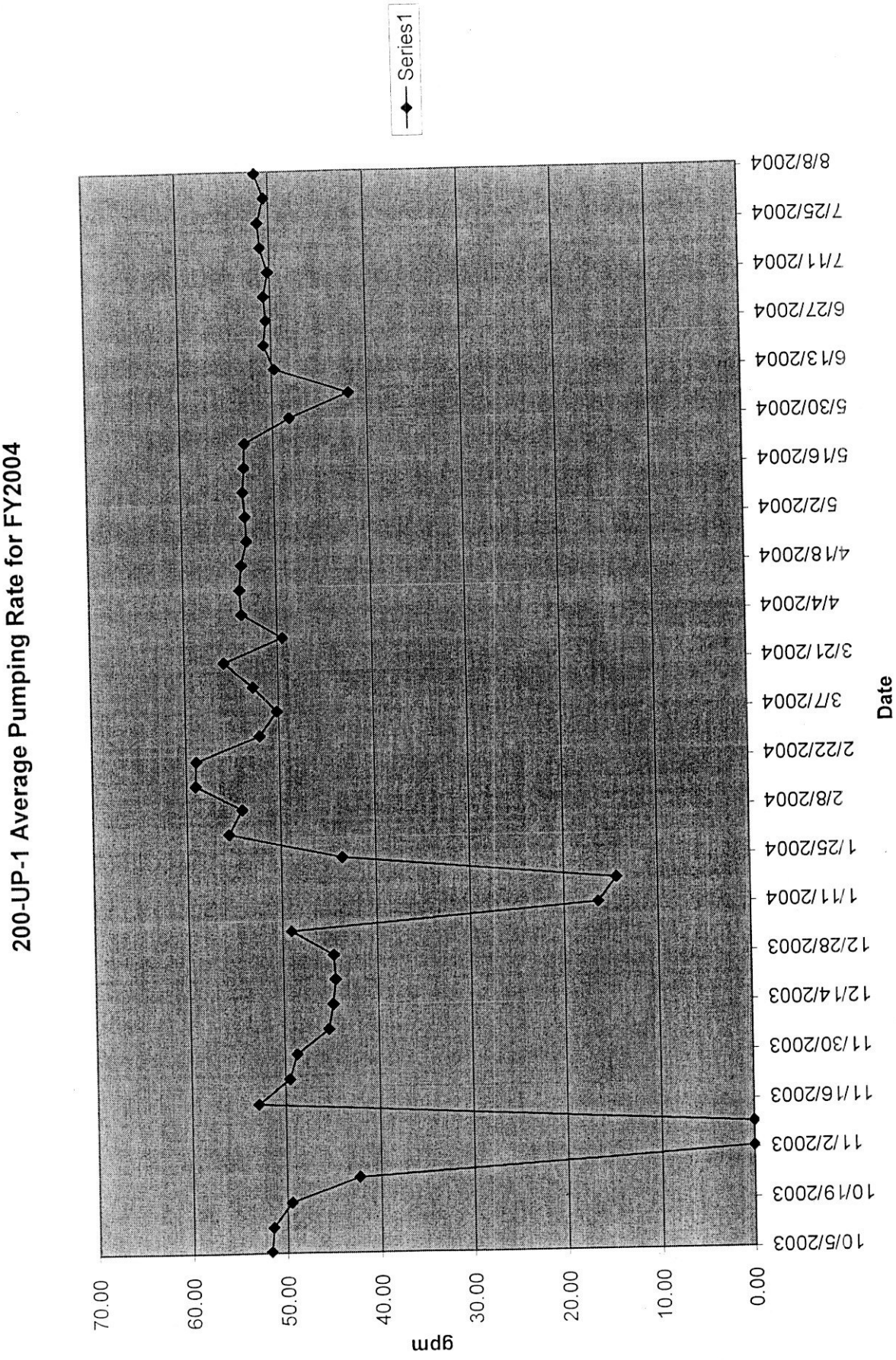
(II) The patterns of rainfall in the region;

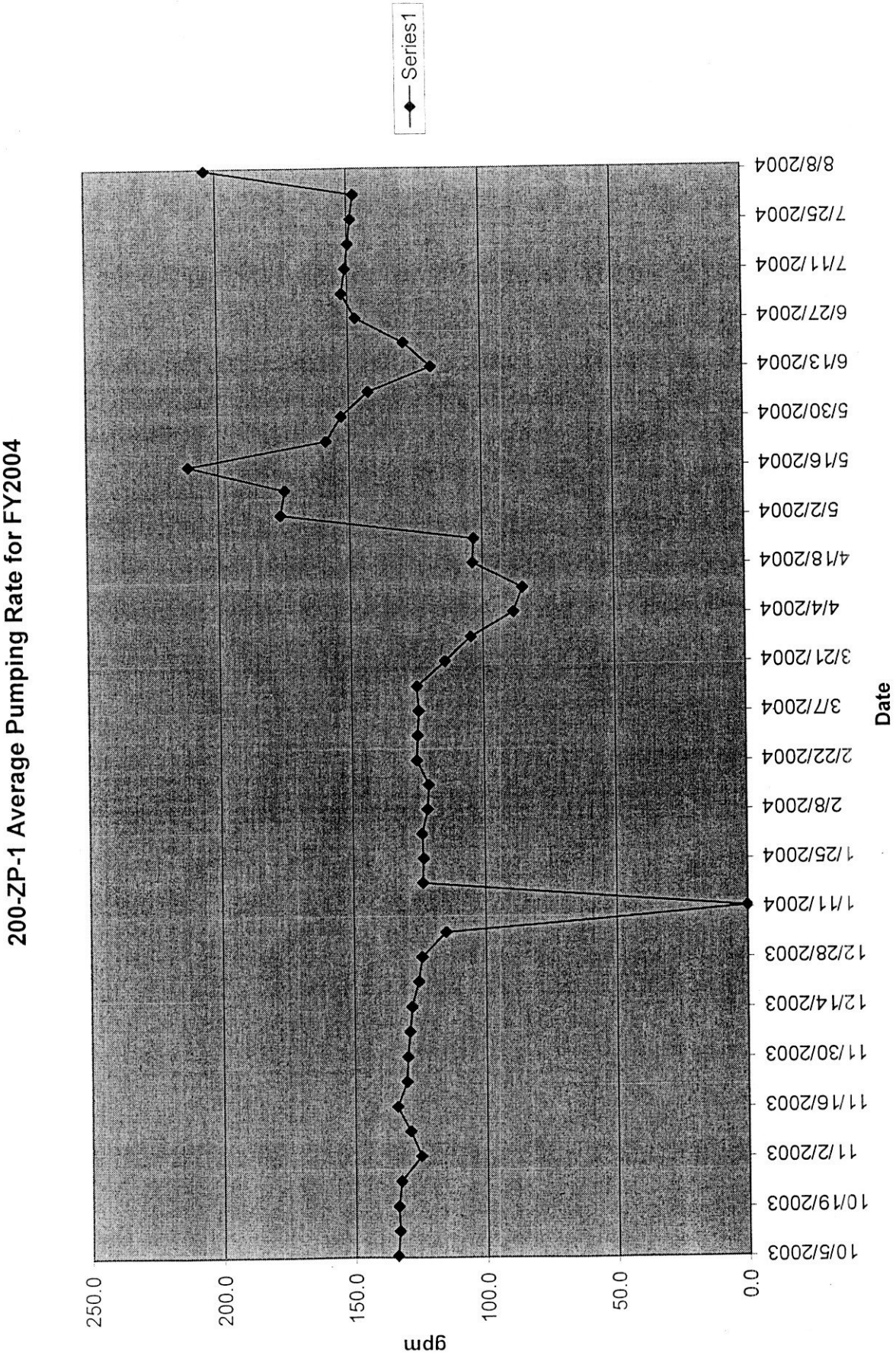
(III) The proximity of the tank system to surface waters;

(IV) The current and future uses of surface waters in the area and any water quality standards established for those surface waters; and

(V) The existing quality of surface water, including other sources of contamination and the cumulative impact on surface-water quality.

(D) The potential adverse effects of a release on the land surrounding the tank


200-UP-1 Average Pumping Rate for FY2004
Series1
gpm
70.00
60.00
50.00
40.00
30.00
20.00
10.00
0.00
Date
10/5/2003
10/19/2003
11/2/2003
11/16/2003
11/30/2003
12/14/2003
12/28/2003
1/11/2004
1/25/2004
2/8/2004
2/22/2004
3/7/2004
3/21/2004
4/4/2004
4/18/2004
5/2/2004
5/16/2004
5/30/2004
6/13/2004
6/27/2004
7/11/2004
7/25/2004
8/8/2004


200-ZP-1 Average Pumping Rate for FY2004
Series1
gpm
250.0
200.0
150.0
100.0
50.0
0.0
Date
10/5/2003
10/19/2003
11/2/2003
11/16/2003
11/30/2003
12/14/2003
12/28/2003
1/11/2004
1/25/2004
2/8/2004
2/22/2004
3/7/2004
3/21/2004
4/4/2004
4/18/2004
5/2/2004
5/16/2004
5/30/2004
6/13/2004
6/27/2004
7/11/2004
7/25/2004
8/8/2004

Comparison of Maximum Carbon Tetrachloride Rebound Concentrations Monitored at 200-PW-1 Soil Vapor Extraction Sites FY 1998 - FY 2004

200-PW-1 (200-ZP-2) Location (Well or Probe) /feet bgs	Site	July 1998 - September 1999		July 1999 - June 2001		July 2001 - June 2002		July 2002 - September 2003		July 2002 (Z-9) or October 2003 (Z-1A) - March 2004		July 2002 (Z-9) or April 2004 (Z-1A) - July 2004	
		Maximum Rebound Carbon Tetrachloride (ppmv)	months* of rebound	Maximum Rebound Carbon Tetrachloride (ppmv)	months* of rebound	Maximum Rebound Carbon Tetrachloride (ppmv)	months* of rebound	Maximum Rebound Carbon Tetrachloride (ppmv)	months* of rebound	Maximum Rebound Carbon Tetrachloride (ppmv)	months* of rebound	Maximum Rebound Carbon Tetrachloride (ppmv)	months of rebound
79-03/ 5 ft	Z-18	0	12										
79-06/ 5 ft	Z-1A	1.4	12										
79-11/ 5 ft	Z-1A	2.9	12										
86-05/ 5 ft	Z-9	0	3										
86-05-01/ 5 ft	Z-9	0	3										
86-06/ 5 ft	Z-9	1.9	6										
87-05/ 5 ft	Z-1A	1.0	12										
87-09/ 5 ft	Z-1A	2.6	12										
94-02/ 5 ft	Z-9	1.4	3										
95-11/ 5 ft	Z-9	2.5	6										
95-12/ 5 ft	Z-9	1.3	6										
95-14/ 5 ft	Z-9	0	3										
CPT-13A/ 9 ft	Z-1A	1.0	12										
CPT-16/ 10 ft	Z-9	1.5	6										
CPT-17/ 10 ft	Z-9	5.1	6	6.6	24	3.2	6	6.6	15	9.0	21	9.9	25
CPT-18/ 15 ft	Z-9	5.0	6	5.2	24	1.4	6	2.4	15	2.4	21	2.5	25
CPT-4A/ 25 ft	Z-1A	not measured		3.5	0	3.4	10						
CPT-4E/ 25 ft	Z-1A	not measured		not measured		2.6	12	1.3	0			2.4	0
CPT-16/ 25 ft	Z-9	not measured		1.8	24	1.1	6	2	15	2.6	21	3.6	25
CPT-31/25 ft	Z-1A	0	12										
CPT-32/ 25 ft	Z-1A	10	12	16.5	18	13.0	12	8.3	6	6	6		
CPT-30/ 28 ft	Z-18	3.2	12	1.4	18	0	12	0	6	0	6		
CPT-13A/ 30 ft	Z-1A	not measured		3.6	18	2.6	12	1.6	6	2	6	1.9	0
CPT-7A/ 32 ft	Z-1A	5.4	12	6.2	18	5.6	12	3.9	6	9.5	6	1.9	0
CPT-27/ 33 ft	Z-9	not measured		2.6	24	1.5	6	1.7	15	2.7	21	2.7	25
CPT-1A/ 35 ft	Z-12	3.0	12	7.7	18	11.3	12	22.0	15	18.3	6	10.7	0
CPT-28/ 40 ft	Z-9					56.5	6						
CPT-33/ 40 ft	Z-1A	2.6	12			2.3	12						
CPT-34/ 40 ft	Z-18	1.7	12	1.9	0	2.2	12	1.6	0			1.4	0
CPT-21A/ 45 ft	Z-9	57	3	127	24	133	6	90.0	15	150	21	150	25
W15-220ST/ 52 ft	Z-9	1.6	3	2.5	24			1.5	1				
CPT-28/ 60 ft	Z-9	3.7	3										
CPT-9A/ 60 ft	Z-9	44	3	68	24	45.3	6	35.9	15	35.9	21	35.9	25
CPT-16/ 65 ft	Z-9	not measured		not measured		not measured		4.2	15			4.2	25
CPT-1A/ 68 ft	Z-12	not measured		not measured		5.5	12						
CPT-30/ 68 ft	Z-18	3.0	12										
CPT-32/ 70 ft	Z-1A					7.7	12						
CPT-13A/ 70 ft	Z-1A	5.6	12										
CPT-24/70 ft	Z-9	3.6	3					4.7	15			9.1	25
W15-219SST/ 70 ft	Z-9	7.6	3	7.8	24			1.9	1			9.5	22
CPT-18/ 75 ft	Z-9	not measured		18	24			4.5	15			8.0	25
CPT-4A/ 75 ft	Z-1A	not measured		not measured		7.1	3						
CPT-31/ 76 ft	Z-1A	4.2	12										
CPT-33/ 80 ft	Z-1A	9.2	12										
W15-82/ 83 ft	Z-9	46	6	55	24	66.7	6	85.8	15	85.8	21	85.8	25
CPT-21A/ 86 ft	Z-9	148	6	195	24	186	6	206	15	244	21	244	25
CPT-34/ 86 ft	Z-18	0	12										
W15-95U/ 86 ft	Z-9	39	6	43	21								
W15-218SST/ 86 ft	Z-9	0	3					1.6	2				
CPT-28/ 87 ft	Z-9	203	6	224	24	229	6	235	15	258	21	258	25
CPT-4B/ 90 ft	Z-1A					3.2	10						
CPT-1A/ 91 ft	Z-18	4.2	12			10.7	10						
CPT-4A/ 91 ft	Z-1A	14	12			7.5	2						
CPT-9A/ 91 ft	Z-9	72	3			74.3	6						
W15-85/ 91 ft	Z-9	not measured		51	24								
W18-252SST/ 100	Z-1A	24	12										
W18-152/ 101 ft	Z-12	33	12	25	18	25.7	12	20.7	6	12.4	6		
CPT-4E/ 103 ft	Z-1A	not measured		not measured		16.1	12						
W18-167/ 106 ft	Z-1A	228	12	248	18	297	12	243	6	266	6		
W18-165/ 109 ft	Z-1A	not measured		not measured		278	12	328	6	205	6		
W15-217/ 114 ft	Z-9	561	6	442	24	93.6	6	444	15	458	21	467	25
CPT-24/ 118 ft	Z-9	37	6	35	24			27.8	15			15.3	25
W15-220SST/ 118	Z-9	36	3	34	24			27.5	3			26.0	25
W18-158L/ 120 ft	Z-1A	492	12	284	18	163	3						
W15-219SST/ 130	Z-9	47	3	54	24			23.1	1			5.7	22
W18-249/ 130 ft	Z-18	215	12	176	18	196	12	46.3	6	41.0	6		
W18-248/ 131 ft	Z-1A	177	12	214	18	306	12	182	6	180	6		
W15-95L/ 144 ft	Z-9	not measured		not measured		31.8	6	25.1	15	40.3	21	40.3	25
W15-219SST/ 155	Z-9	24	3	44	24			6.8	1			0	22
W15-220L/ 163 ft	Z-9							-----	15			8	25
W15-219L/ 175 ft	Z-9							-----	15			23	25
W15-9L/ 176 ft	Z-9	15	6	20	21	16.9	6	13.1	15	13.1	21	13.1	25
W15-84L/ 180 ft	Z-9	not measured		not measured		not measured		25.9	15	25.9	21	25.9	25
W15-6L/ 182 ft	Z-9	1.3	6										
W15-220SST/ 185	Z-9	13	3	15	24			-----	1				
W18-7/ 197 ft	Z-1A	29	12										
W18-12/ 198 ft	Z-18	19	12										
W18-6L/ 208 ft	Z-1A	15	12										

* - based on location (Z-1A/18/12 or Z-9) of monitoring point; specific points may be beyond SVE zone of influence during particular operating configurations

- Z-18 and Z-12 wells off-line Oct 96 - Apr 98
- CPT-1A, CPT-9A, and possibly CPT-7A appeared to be beyond SVE zone of influence in Oct 96 based on differential pressure (BHI-01105, p. 6-1)
- CPT-9A, CPT-21A, CPT-28 beyond SVE zone of influence in May 96 based on CCl4 concentrations and airflow modeling based on measured vacuums (BHI-01105, p. 6-1)

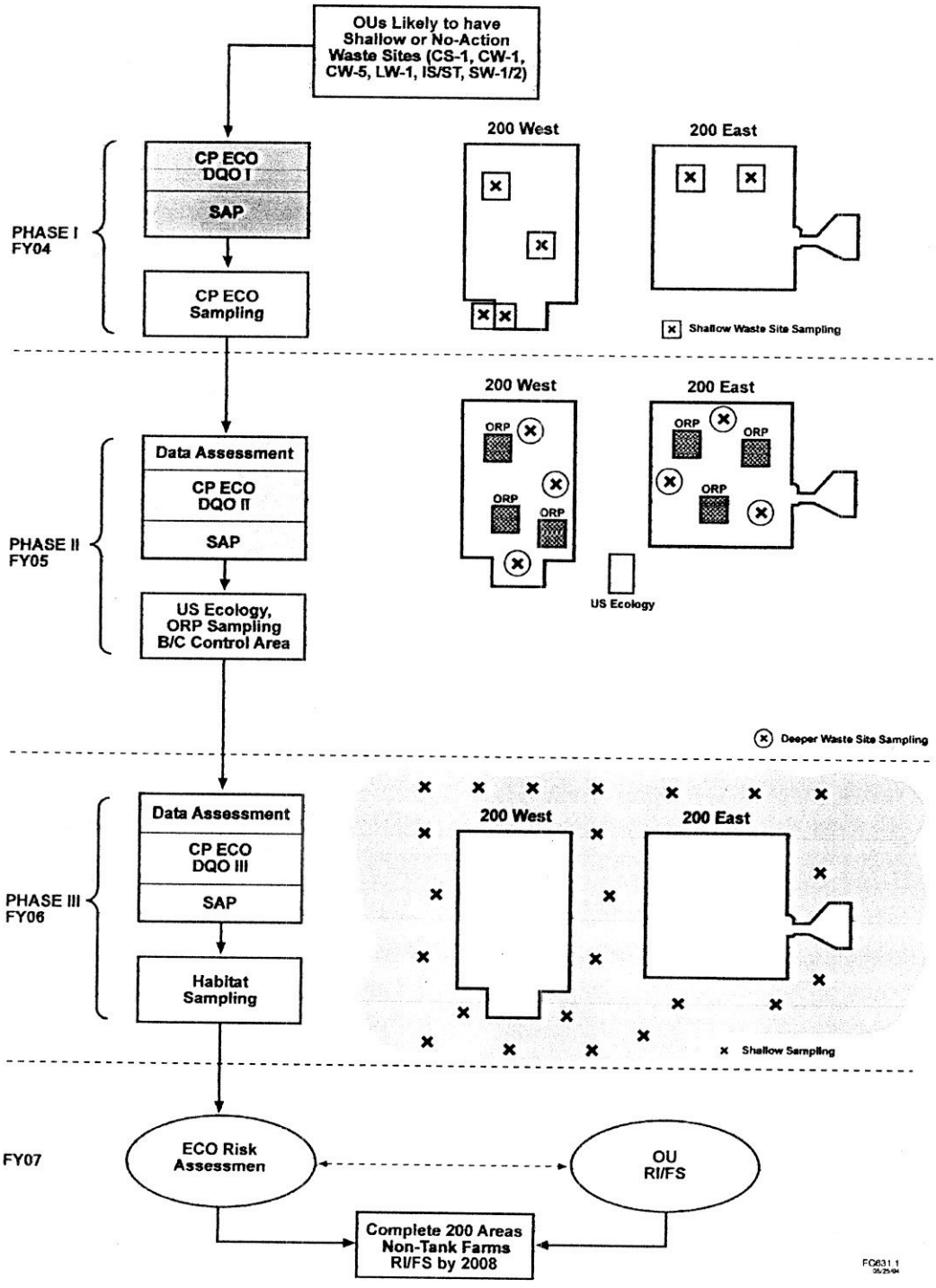
Carbon Tetrachloride Rebound Concentrations
Monitored at 200-PW-1 Soil Vapor Extraction Sites
July 2002 (Z-9) or April 2004 (Z-1A) - July 2004

200-PW-1 (200-ZP-2) Location (Well or Probe) /feet bgs	Site	05/01/2003 CCl4 (ppmv)	05/22/2003 CCl4 (ppmv)	07/01/2003 CCl4 (ppmv)	08/05/2003 CCl4 (ppmv)	08/26/2003 CCl4 (ppmv)	10/31/2003 CCl4 (ppmv)	12/04/2003 CCl4 (ppmv)	12/22/2003 CCl4 (ppmv)	01/20/2004 CCl4 (ppmv)	02/19/2004 CCl4 (ppmv)	03/16/2004 CCl4 (ppmv)	03/24/2004 CCl4 (ppmv)	04/29/2004 CCl4 (ppmv)	05/05/2004 CCl4 (ppmv)	06/03/2004 CCl4 (ppmv)	06/24/2004 CCl4 (ppmv)	07/15/2004 CCl4 (ppmv)	07/23/2004 CCl4 (ppmv)
CPT-17/ 10 ft	Z-9	5.3	6.6	4.5	6.1	5.3	3.2	4.1	2.7	5.8	5.0	--- (c)	9.0	7.0		9.9	9.0	7.4	
CPT-18/ 15 ft	Z-9	0	2.0	0	1.8	2.4	0	1.1	1.0	1.5	1.4	--- (c)	1.6	1.2		2.5	2.5	--- (e)	0
CPT-4E/ 25 ft	Z-1A													1.7		1.4	2.0	2.4	
CPT-16/ 25 ft	Z-9	1.0	0	1.2	1.5	1.5	2.6	1.2	1.4	0	1.7	2.2		1.8		1.4	3.6	--- (e)	1.3
CPT-32/ 25 ft	Z-1A						0	0	0	2.4	5.1	5.9							
CPT-30/ 28 ft	Z-1A						0	0	0	0	0	0							
CPT-13A/ 30 ft	Z-1A						0	0	0	0	0	1.8		1.4		1.5	1.8	1.9	
CPT-7A/ 32 ft	Z-1A						2.4	3.0	2.7	4.3	3.0	9.5		1.7		1.9	1.7	1.6	
CPT-27/ 33 ft	Z-9	1.0	1.7	1.1	1.0	1.6	1.1	0	1.1	1.5	2.0	2.7		2.5		1.4	2.2	1.2	
CPT-1A/ 35 ft	Z-12						18.3	9.5	13.1	10.8	6.0	9.0		4.2		10.7	9.0	5.2	
CPT-34/ 40 ft	Z-18													1.4		1.1	1.0	0	
CPT-21A/ 45 ft	Z-9	72.8	90.0	75.1	85.5	83.0	52.3	89.1	68.5	59.2	71.8	--- (c)	150	59.2		136	81.9	34.0	
CPT-9A/ 60 ft	Z-9	30.1	33.2	30.1	30.0	28.5	25.9	33.1	30.8	24.3	33.8	27.1		25.7		28.3	26.0	24.8	
CPT-16/ 65 ft	Z-9													3.1		4.0	1.5	--- (e)	4.2
CPT-24/ 70 ft	Z-9													4.4		4.4	9.1	5.0	
W15-219SST/ 70 ft	Z-9													9.5					
CPT-18/ 75 ft	Z-9													8.0		6.2	4.7	--- (e)	6.3
W15-82/ 83 ft	Z-9	50.0	56.2	49.2	44.3	54.4	24.0	34.4	43.1	47.5	45.9	50.5		83.1		0	85.4	81.3	
CPT-21A/ 86 ft	Z-9	199	206	153	187	197	91.8	183	171	244	98.1	--- (c)	212	73.3		177	157	95.7	
CPT-28/ 87 ft	Z-9	178	235	150	197	190	155	206	140	56.7	96.1	--- (c)	258	26.8		222	164	227	
W18-152/ 101 ft	Z-12						5.7	10.5	11.3	10.5	12.4	12.1							
W18-167/ 106 ft	Z-1A						201	223	201	266	201	--- (b)							
W18-165/ 109 ft	Z-1A						94.2	205	193	188	186	94.8							
W15-217/ 114 ft	Z-9	74.3	409	89.7	335	444	53.8	80.4	66.4	82.5	62.0	--- (c)	458	256		377	257	467	
CPT-24/ 118 ft	Z-9													5.3		15.3	8.5	6.9	
W15-220SST/ 118 ft	Z-9														26.0	18.7	18.5	15.7	
W18-249/ 130 ft	Z-18						8.0	31.1	21.4	19.6	22.1	41.0							
W15-219SST/ 130 ft	Z-9													5.7					
W18-248/ 131 ft	Z-1A						78.6	80.4	85.6	90.9	166	180							
W15-95L/ 144 ft	Z-9	17.2	18.8	25.1	13.7	10.9	19.2	20.3	----- (a)	----- (a)	40.3	23.0		35.0		22.0	28.1	--- (e)	18.6
W15-219SST/ 155 ft	Z-9													0					
W15-220L/ 163 ft	Z-9													7.5		6.4	0	0	
W15-219L/ 175 ft	Z-9													--- (d)	23.0	2.9	0	--- (e)	0
W15-9L/ 176 ft	Z-9	8.2	11.6	10.3	13.1	12.5	6.1	5.8	----- (a)	----- (a)	9.1	9.6		8.8		10.1	11.9	--- (e)	10.9
W15-84L/ 180 ft	Z-9	8.3	25.9	17.9	21.0	23.8	4.7	4.9	4.9	10.7	18.5	--- (c)	19.5	15.6		16.4	20.9	18.1	

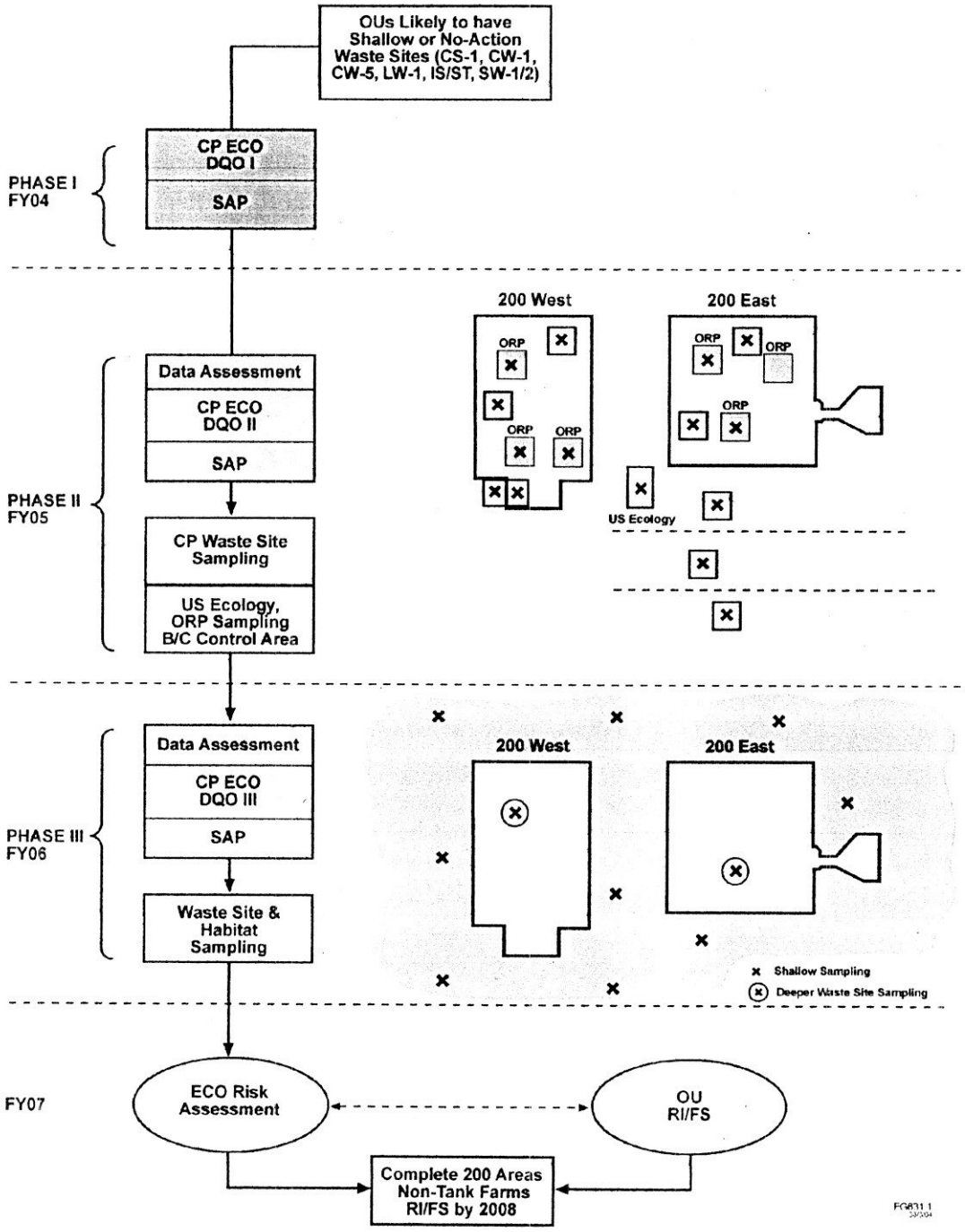
(a) Unable to access because of drilling operations
(b) Unable to sample; tubing will be repaired.
(c) anomalously low due to pump problems; resampled on 3/24/04
(d) unable to install sample tubing; sampled W15-219SST/70 ft, W15-219SST/130 ft, and W15-219SST/155 ft instead
(e) Unable to access

Attachment 7

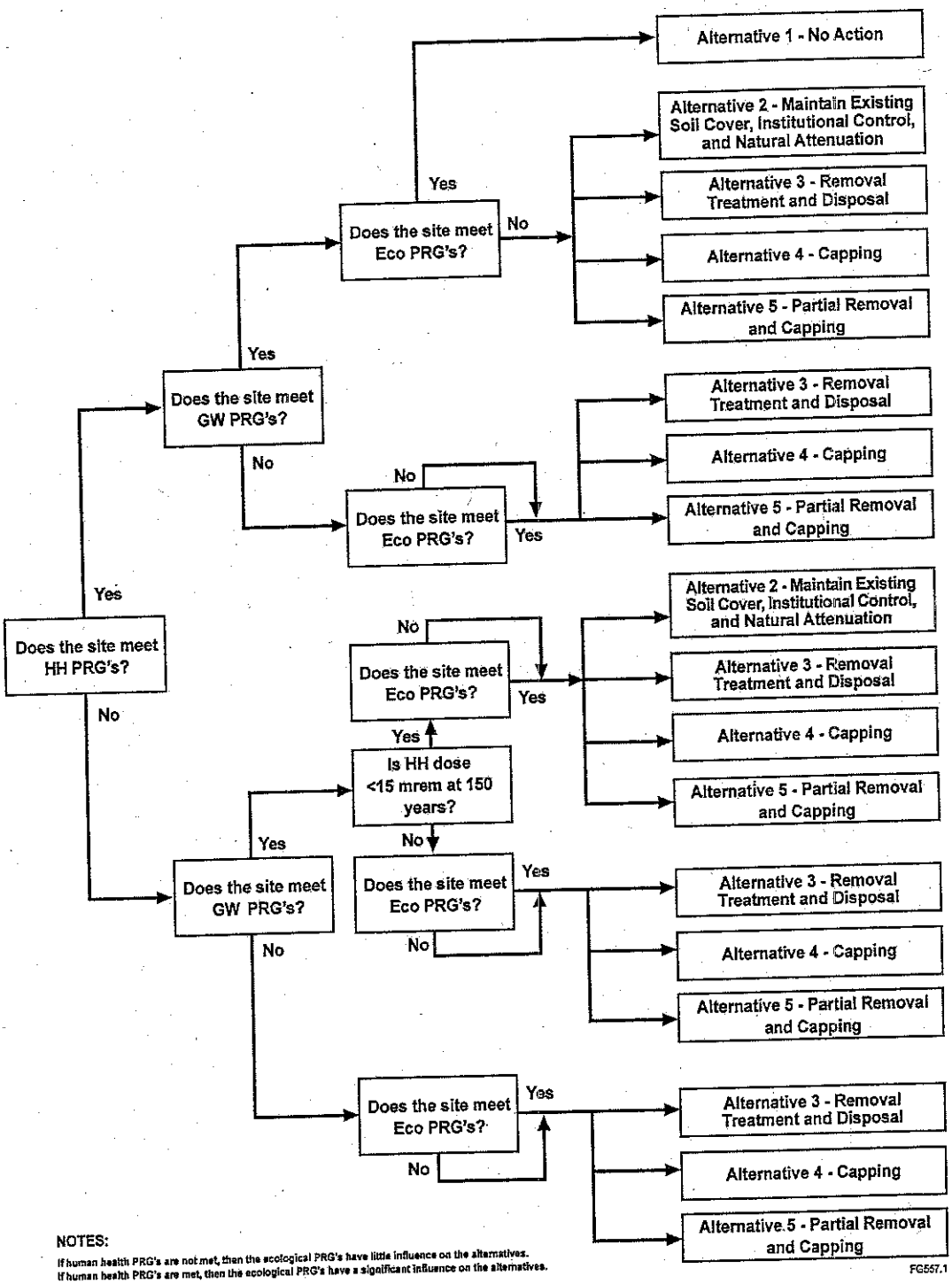
Attachment 1. Phased Central Plateau Ecological Risk Assessment.



Attachment 2. Phased Central Plateau Ecological Risk Assessment (FY04 Field Work Deferred).



CURRENT LOGIC DIAGRAM FOR SELECTING ALTERNATIVES



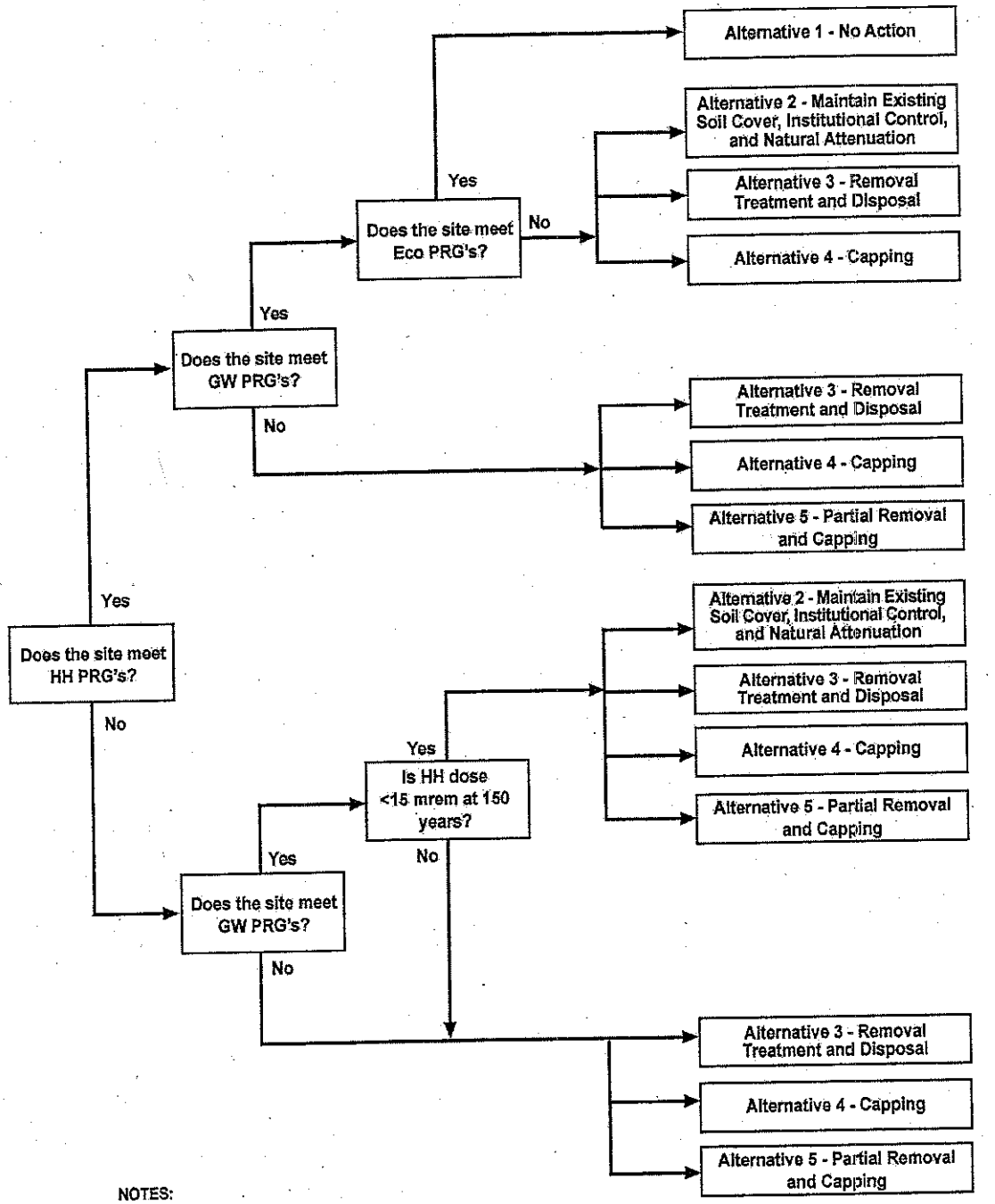
NOTES:

If human health PRG's are not met, then the ecological PRG's have little influence on the alternatives.
If human health PRG's are met, then the ecological PRG's have a significant influence on the alternatives.

FG557.1

ECO = Ecological HH = Human Health GW = Ground Water mrem = Millirem PRG = Preliminary Remediation Goals < = Less Than

REVISED LOGIC DIAGRAM FOR SELECTING ALTERNATIVES



NOTES:

If human health PRG's are not met, then the ecological PRG's have little influence on the alternatives.
If human health PRG's are met, then the ecological PRG's have a significant influence on the alternatives.

ECO = Ecological HH = Human Health GW = Ground Water mrem = Millirem PRG = Preliminary Remediation Goals <= Less Than

FG557.1
8/23/04

EFFECT OF DEFERRED ECOLOGICAL SAMPLE RESULTS ON CURRENT CENTRAL PLATEAU FEASIBILITY STUDIES

200-TW-1/2 and 200-PW-5 OU Waste Sites

There are 80 waste sites in these OUs

The Feasibility Study did not identify any sites as candidates for the No-Action Alternative.

200-PW-2/4 OU Waste Sites

There are 53 waste sites in these OUs

Because the Feasibility Study has not commenced, the waste sites have not been identified as candidates for application of remedial alternatives. However, the Central Plateau Ecological DQO/SAP sorted the Central Plateau waste sites into contamination categories to support the selection of potential ecological sampling sites. Through that sorting, nine sites in these OUs were identified as potential candidates for application of the No-Action alternative, including:

- 207-A South Retention Basin
- UPR-200-E-39
- UPR-200-E-64
- UPR-200-E-145
- 200-W-22 Unplanned Release
- 200-W-42 Radiological Process Sewer
- UPR-200-W-19
- UPR-200-W-36
- UPR-200-W-163

200-CS-1 OU Waste Sites

There are 7 waste sites in this OU

Because the Feasibility Study has not commenced, the waste sites have not been identified as candidates for application of remedial alternatives. However, the Central Plateau Ecological DQO/SAP sorted the Central Plateau waste sites into contamination categories to support the selection of potential ecological sampling sites. That sorting did not identify any sites as candidates for the No-Action Alternative.

Conclusion

The deferral of the FY04 Central Plateau Ecological field characterization into FY05 is not expected to have any impact on the 200-TW-1/2 or 200-CS-1 Feasibility Studies because of the absence of candidate sites for the No-Action Alternative in those OUs.

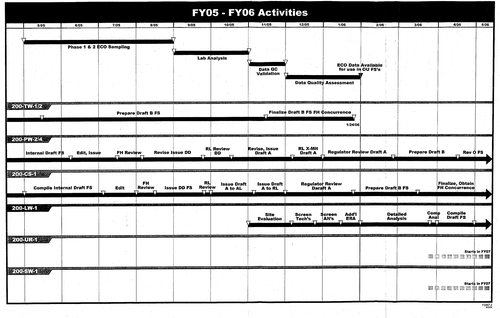
The effect of the deferral on the 200-PW-2/4 FS is expected to be insignificant.

1. The ecological sampling data only has the potential to affect the waste sites that are candidates for the No-Action Alternative.

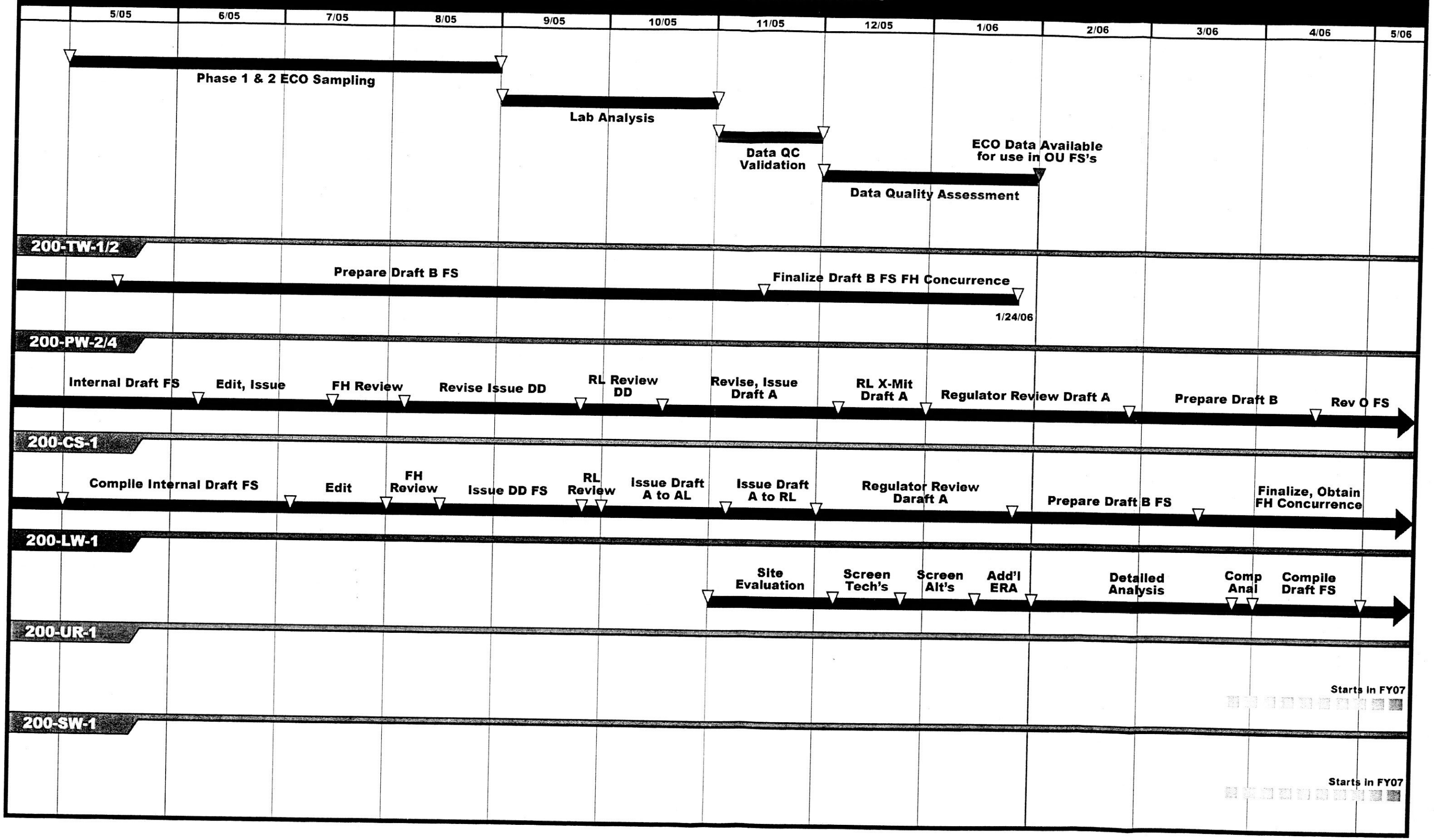
2. The data will be available to for inclusion in the decision-making process. Although, the data will be available later than desired, it will support decision making and reporting.

3. It is possible that some of nine potential No-Action waste sites identified for this OU are adjacent to, or physically on top of other waste sites with higher contamination levels and would be remediated with the other, higher risk waste sites.

4. It is likely that some of the nine potential No-Action waste sites in this OU offer poor habitat for ecological receptors by virtue of their configuration (denuded gravel lots, under asphalt pads, etc) and will therefore not represent threats to the ecosystem.


FY05 - FY06 Activities
4/05
5/05
7/05
8/05
9/05
10/05
11/05
12/05
1/06
2/06
3/06
4/06
5/06
Phase 1 & 2 ECO Sampling
Lab Analysis
Data QC Validation
ECO Data Available for use in OU FS's
Data Quality Assessment
200-TW-1Z
Prepare Draft B FS
Finalize Draft B FS FH Concurrence
12/06
200-PW-2.4
Internal Draft FS
Edit, Issue
FH Review
Revise Issue DO
RL Review DO
Revise, Issue Draft A
RL X-RH Draft A
Regulator Review Draft A
Prepare Draft B
Rev o FS
200-CS-1
Compile Internal Draft FS
Edit
FH Review
Issue DO FS
RL Review
Issue Draft A to AL
Issue Draft A to AL
Regulated Review Draft A
Prepare Draft B FS
Finalize, Obtain FH Concurrence
200-LW-1
Site Evaluation
Screen Tech's
Screen ARA's
Add'l ESA
Detailed Analysis
Comp Asmt
Complte Draft FS
200-UR-1
Work in FY07
200-SW-1
Work in FY07

FY05 - FY06 Activities



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8/23/04